

Technical Data Sheet

**Icorene 4014**

Polypropylene Copolymer
LyondellBasell Industries
Rotomolding

Product Description

ICORENE® 4014 is a polypropylene copolymer that has been specifically developed for rotational moulding.

This grade is UV stabilised and suitable for applications requiring high stiffness and high temperature resistance.

General

Material Status	• Commercial: Active		
Availability	• Europe	• Latin America	
Additive	• UV Stabilizer		
Features	• High Heat Resistance	• High Stiffness	• UV Resistant
Uses	• Automotive Under the Hood • Displays	• High Temperature Applications • Tanks	
Appearance	• Natural Color	• Unspecified Color	
Forms	• Powder		
Processing Method	• Rotational Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.900 g/cm ³	0.900 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15 g/10 min	15 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	3480 psi	24.0 MPa	ASTM D638
Flexural Modulus	167000 psi	1150 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength ¹ (73°F (23°C))	3.9 ft·lb/in ²	8.2 kJ/m ²	ISO 179
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	194 °F	90.0 °C	
264 psi (1.8 MPa), Unannealed	122 °F	50.0 °C	

Notes

¹ @ PIAT 210°C is 8.2KJ ± 1.1

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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